IN THE CLAIMS

Please cancel claims 1-19 without prejudice or disclaimer, and substitute new claims 20-39 therefor as follows:

Claims 1-19 (Cancelled).

20. (New) A planar filter comprising a planar resonator comprising:

a conductive region supporting a first resonating mode propagating along a first conductive path, said conductive region being a smoothed contour shaped region; and

a conductor-free region made in said conductive region, said conductorfree region being a smoothed contour shaped region symmetrically disposed along a region axis forming an angle with respect to said first conductive path.

- 21. (New) The planar filter according to claim 20, comprising a second resonating mode propagating along a second conductive path, said second resonating mode being perpendicular to said first resonating mode, and said conductor-free region causing a perturbation of the symmetry of said planar resonator resulting in a frequency shift of said resonating modes and their mutual coupling.
- 22. (New) The planar filter according to claim 20, wherein said conductor-free region is made internally to said conductive region.
- 23. (New) The planar filter according to claim 21, wherein said conductor-free region is made internally to said conductive region.
- 24. (New) The planar filter according to claim 20, wherein said angle is an odd multiple of 45°.

- 25. (New) The planar filter according to claim 20, wherein said conductive region has a polygonal shape with edges significantly rounded.
- 26. (New) The planar filter according to claim 25, wherein each of said edges significantly rounded has a bending radius of about 10% to 30% of the mean value of the polygon side lengths.
- 27. (New) The planar filter according to claim 20, wherein said conductive region has an elliptical shape.
- 28. (New) The planar filter according to claim 20, wherein said conductor-free region is an elliptical shaped region having its major axis parallel to said region axis.
- 29. (New) The planar filter according to claim 20, comprising a dual mode planar resonator and at least a pair of planar conductive leads for coupling high frequency signals into and out of said dual mode planar resonator.
- 30. (New) The planar filter according to claim 29, wherein said at least a pair of planar conductive leads is capacitively coupled to said dual mode planar resonator through respective gaps.
- 31. (New) The planar filter according to claim 29, wherein said at least a pair of planar conductive leads is inductively coupled to said dual mode planar resonator through respective taps.
- 32. (New) The planar filter according to claim 20, wherein the conductive region is made of superconductor material.
- 33. (New) The planar filter according to claim 32, wherein said superconductor material is a high-temperature oxide superconductor.

- 34. (New) The planar filter according to claim 33, wherein said high-temperature oxide superconductor is represented by an yttrium family superconductor.
- 35. (New) The planar filter according to claim 33, wherein said hightemperature oxide superconductor is represented by a bismuth family superconductor.
- 36. (New) The planar filter according to claim 33, wherein said hightemperature oxide superconductor is represented by a thallium family superconductor.
- 37. (New) The planar filter according to claim 32, wherein said superconductor material comprises a metallic superconductor.
- 38. (New) A receiver front-end for use in a transceiver station of a wireless communication network, said receiver front-end comprising:
 - a first node coupled to a transceiver antenna;
- a second node coupled to signal processing sections of said transceiver station; and
- a receiving branch inserted between said first and second nodes, said receiving branch comprising a cryostat enclosing a low noise amplifier, said cryostat enclosing a planar filter made according to claim 20, and mutually connected in cascade arrangement to said low noise amplifier.
- 39. (New) A receiver front-end for use in a transceiver station of a wireless communication network, said receiver front-end comprising:
 - a first node coupled to a transceiver antenna;
- a second note coupled to signal processing sections of said transceiver station;

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a receiving branch inserted between said first and second nodes, said receiving branch comprising a cryostat enclosing a low noise amplifier, said cryostat enclosing a planar filter made according to claim 20, said planar filter being mutually connected in cascade arrangement to said low noise amplifier; and

a transmitting branch inserted between said first and second nodes, said transmitting branch comprising a transmitting filter made according to claim 20.